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Summary

## Rotary piston engine

- 5 For a rotary piston engine having at least one piston rotatably mounted in a cylinder, in which the axes of symmetry of the at least one piston and of the cylinder extend collinearly, the effective piston displacement volume is made greater than in a Wankel engine and the combustion chambers are designed to be readily sealable in that two pistons are provided which are mounted for movement relative to each other while their collinear axes are
- 10 mounted for movement relative to each other, wherein a plurality of effective piston displacement volumes are formed between two radial boundary surfaces of the two respective pistons which, when the engine is running, perform angular motion with respect to one another, and means are provided which cause circular motion of the two pistons to be superimposed on the angular motion.



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**Summary****Thermal Rotary Piston Device**

- 5 For a thermal rotary piston device (100) composed of two units each having two pistons (1, 2) mounted for movement relative to each other and each mounted for rotation in a cylinder (3), the axes of symmetry (4, 5) of the pistons (1, 2) and the cylinder (3) extending collinearly and the pistons (1, 2) being mounted such that they can move relatively to each other, wherein a plurality of effective piston displacement volumes (8, 9, 11, 12) is formed between
- 10 each of the two radial boundary surfaces (10, 20) of the two respective pistons (1, 2), which, when the engine (100) is running, perform angular motion with reference to one another, and means (110) are provided which cause a circular motion of the two pistons (1, 2) to be superimposed over said angular motion, heat losses are reduced and the energy of the expanding gases is converted to a high extent into kinetic energy in that the two units are
- 15 disposed such that that part of said means from which the torque of the rotary piston engine (100) is derived is driven by both units and heating means, heat storage means and refrigerating means are provided in conjunction with a piping system through which the inlet ports and outlet ports of the piston displacement volumes of the at least one cylinder (3) of said units are interconnected.